

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Enterprise Field Services, LLC	Contact Alena Miro
PO Box 4324, Houston, TX 77210	Telephone No. 575-628-6802
Facility Name 1009 Pipeline	Facility Type: Natural Gas Pipeline
Surface Owner BLM	Mineral Owner NA
	Lease No. NA

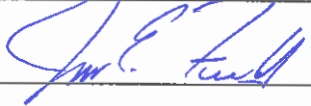

LOCATION OF RELEASE

Unit Letter E	Section 35	Township 22S	Range 29E	Feet from the 85	North/South Line South	Feet from the 477	East/West Line West	County Eddy
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Latitude: N 32.349122 Longitude: W -103.962368

NATURE OF RELEASE

Type of Release Natural Gas and Pipeline Liquids	Volume of Release: 2587 MSCF and 35 bbls of pipeline liquids	Volume Recovered: NA
Source of Release Pipeline release	Date and Hour of Occurrence 11/28/2016 @ 11:43 MST	Date and Hour of Discovery 11/28/2016 @ 11:43 MST
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Alena Miro	Date and Hour 11/28/2016 @ 14:51 MST	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. 35 bbls of pipeline liquids	
If a Watercourse was Impacted, Describe Fully.* Pipeline liquids were released into a salt waterbody on the Tamarisk Flat. The salt waterbody is a fully enclosed natural depression with no outlet to navigable waters.		
Describe Cause of Problem and Remedial Action Taken.* Natural gas and pipeline liquids were released due to a pipeline leak. The pipeline segment was isolated, blown down, and repaired following a standard one-call. Approximately 35 bbls of liquid were noted on the ROW.		
Describe Area Affected and Cleanup Action Taken.* A liquid spill of approximately 35 bbls occurred as part of the leak. Remediation actions are as outlined in the attached closure report.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jon E. Fields	Approved by District Supervisor: 	
Title: Director, Field Environmental	Approval Date: 4/12/2023	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/23/2017 Phone: 713-381-6684		

* Attach Additional Sheets If Necessary



Souder, Miller & Associates ♦ 201 S. Halagueno ♦ Carlsbad, NM 88221
(575) 689-7040

January 24, 2017

SMA #5B25299 BG-10

Enterprise Field Services, LLC
P. O. Box 4324
Houston, TX 77210
Attn.: Ms. Alena Miro

RE: WATER ASSESSMENT REPORT SUMMARIZING THE PIPELINE LEAK AT THE 1009 PIPELINE ROW, EDDY COUNTY, NEW MEXICO

Dear Ms. Miro:

Souder, Miller & Associates (SMA) is pleased to submit this letter report to Enterprise Field Services, LLC (Enterprise) summarizing the assessment, water sampling, and closure at the 1009 pipeline release site. SMA's services were performed in accordance with Enterprise's General Release Notification, Response and Remediation Plan dated March 9, 2015. The site is located in the NW ¼ SW ¼ Section 35, T22S, R29E, Eddy County, New Mexico on land administered by the Bureau of Land Management (BLM). Figure 1 illustrates the vicinity of the site. The release occurred on November 25, 2016 and was a result of a pipeline integrity leak. SMA responded at the release site on November 28, 2016

1.0 SITE RANKING AND RELEASE HISTORY

The release site is located approximately 10.5 miles northeast of the Town of Loving, New Mexico at an elevation of approximately 2,970 feet above sea level. The release point occurred within a surface impounded salt lake between NM-State Highway 128 and the Burlington Northern Santa Fe Railroad (BNSF) right-of-way (ROW). After evaluation of the site using aerial photography and topographic maps, and searching the New Mexico Office of the State Engineer's water well database, depth to groundwater is estimated to be less than 50 feet below ground surface (bgs). Figure 1 depicts the site vicinity and Figure 2 depicts the site location.

SMA searched the New Mexico State Engineer's Office (NMOSE) online database for water wells in the vicinity of the release. One (1) water well is located within a 1-mile radius of the site, the C-02743. The physical location of this release is on BLM land and within the jurisdiction of the New Mexico Oil Conservation Division (NMOCD).

Based on the NMOCD site ranking criteria detailed in Table 1, and the specific site characteristics of a depth to groundwater of less than 50 feet, wellhead protection, distance to surface water, and occurring within an impounded salt lake, this release location has been assigned an NMOCD ranking of greater than 20 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 1 illustrates the site ranking rationale.

2.0 SUMMARY OF FIELD ACTIVITIES

On November 28, 2016, at the request of Enterprise, SMA arrived on site and collected

Enterprise Field Services, LLC
1009 Pipeline Spill

SMA# 5B25299 BG-10
1/24/2017

aqueous assessment samples SS1 and NS1. Talon/LPE was onsite at the request of Enterprise Operations and had placed a water surface boom around the release site to provide containment. Follow-up aqueous samples W1 through W3 were collected December 1, 2016 from liquid in the area of potential impact associated with the release. Samples W1 through W3 were collected at the water surface within the boomed area. Samples were sent under standard chain of custody protocol to Hall Environmental Analysis Laboratory. Table 2 Summary of Laboratory Results provides the results of the laboratory analytical results for Samples SS1, NS1, and W1 through W3.

Hall Environmental Analysis Laboratories Analytical Reports are included in Appendix A. Photographic documentation of the initial condition of the site, interim activities, and site conditions is included in Appendix C.

3.0 CONCLUSIONS AND RECOMMENDATIONS

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following soil action levels for contaminants of concern for a site with a ranking of greater than 20: 10 ppm (mg/kg) benzene, 50 ppm total BTEX, and 100 ppm TPH. However, the location of the release within the salt lake impoundment prevented collection of meaningful soil samples. Therefore, sampling was limited to aqueous samples, initially and after mitigation over time.

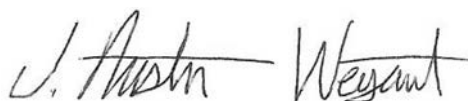
Laboratory analytical results for interim aqueous samples collected December 1, 2016 by SMA exhibited very low levels of constituents of concern. However, subsequently, an aqueous closure sample collected January 17, 2017 gave results below practical quantitation limits for each method. Refer to the Summary of Laboratory Analytical Results in Table 2 as well as to the Hall Environmental Analysis Laboratory reports included in Appendix A.

Based on the laboratory analytical results from aqueous sampling performed January 17, 2017 by Souder, Miller & Associates for the pipeline release, SMA recommends that the site be considered closed in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills, and Releases.

The scope of our services consisted of the performance of a preliminary spill assessment, water surface sampling, evaluation and interpretation of data, and preparation of this summary report. All SMA work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas pipeline releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact me or Cynthia Gray at 505-325-7535.

Sincerely,
Souder, Miller & Associates



Enterprise Field Services, LLC
1009 Pipeline Spill

SMA# 5B25299 BG-10
1/24/2017

Austin Weyant
Project Scientist

Cynthia Gray, CHMM
Senior Scientist

Figures:

Figure 1: Vicinity Map

Figure 2: Location Map

Tables:

Table 1: Site Ranking

Table 2: Summary of Laboratory Analysis

Appendices

Appendix A: Hall Environmental Analysis Laboratory Reports

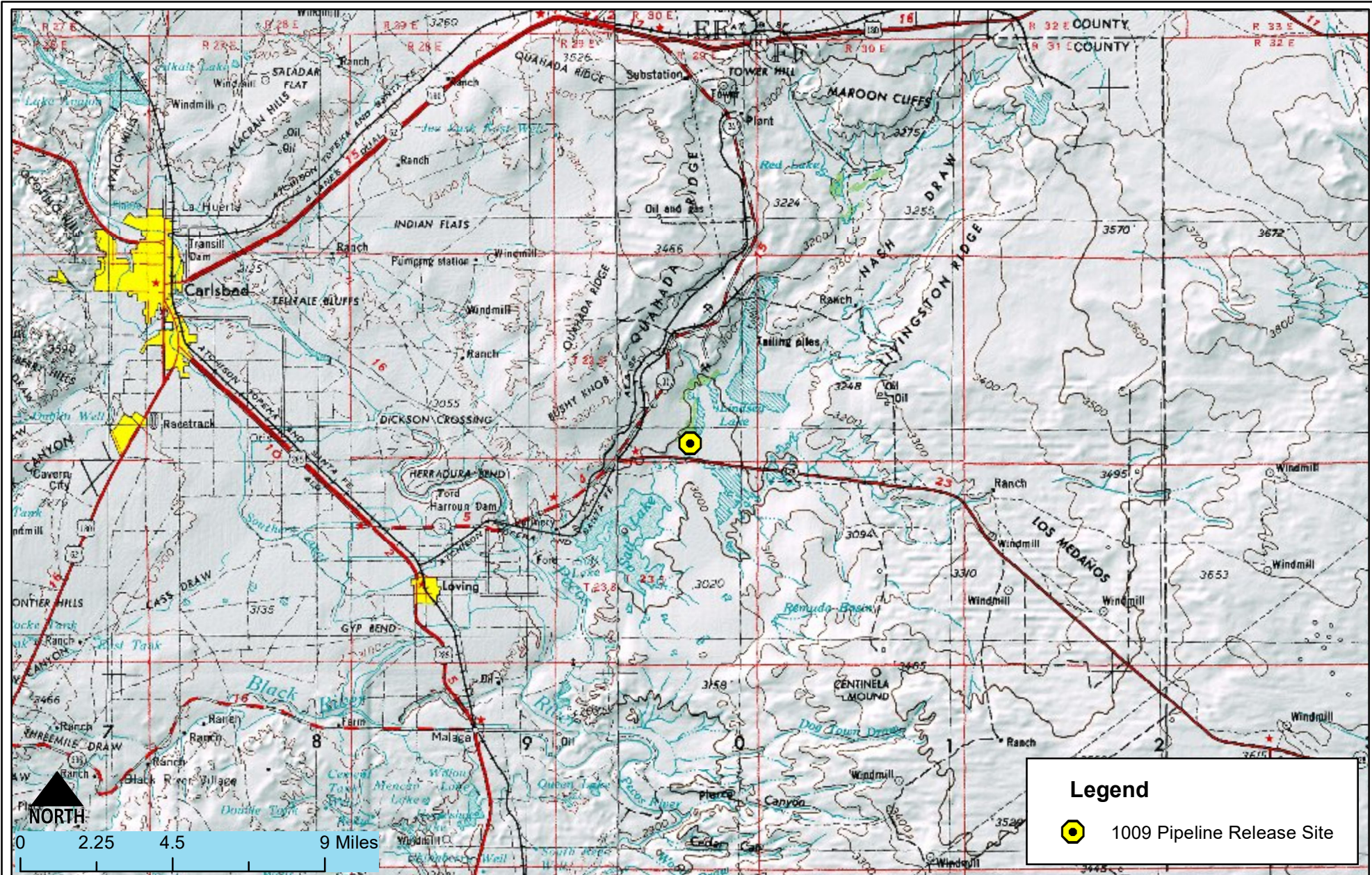
Appendix B: C141 Initial and Final

Appendix C: Photographic Documentation

Enterprise Field Services, LLC
1009 Pipeline Spill

SMA# 5B25299 BG-10
1/24/2017

FIGURES



Site Vicinity Map Enterprise 1009 Pipeline Release Site Section 35, Township 22S, Range 29E
Eddy County, New Mexico

Figure 1

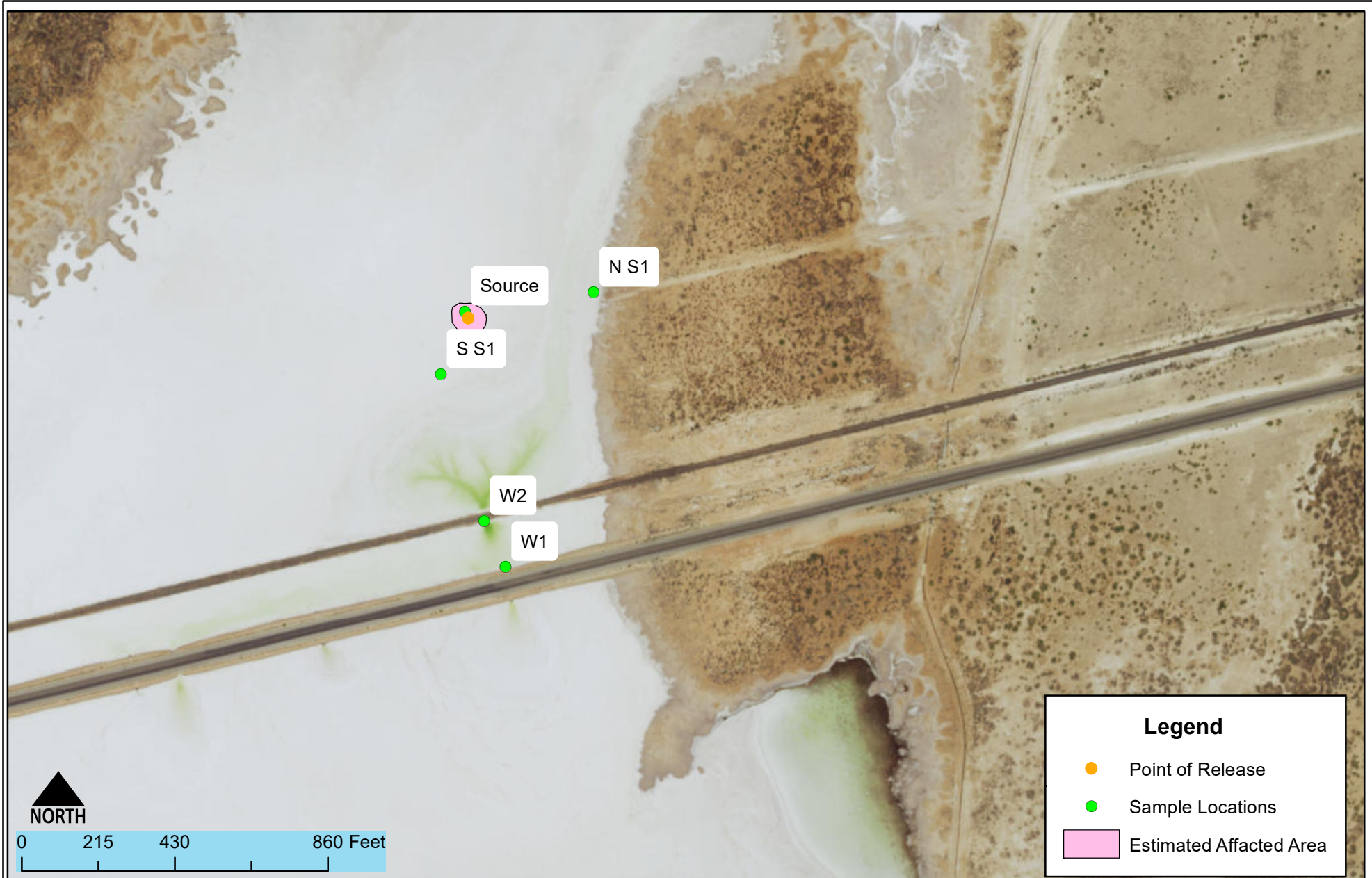
Date Saved:
12/23/2016

Revisions
By: _____ Date: _____ Descr: _____
By: _____ Date: _____ Descr: _____
Copyright 2015 Souder, Miller & Associates - All Rights Reserved

Drawn _____
Checked _____
Approved _____
Curtis Pattillo



201 South Halaguena Street
Carlsbad, New Mexico 88221
(575) 689-7040
www.soudermiller.com
Serving the Southwest & Rocky Mountains



Detailed Site and Sample Map
1009 Release - Enterprise
Loving, New Mexico

Figure 2

Date Saved:
1/24/2017

Revisions		Descr:
By: _____	Date: _____	Descr: _____
By: _____	Date: _____	Descr: _____

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Drawn	Lucas Middleton
Checked	_____
Approved	_____



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Enterprise Field Services, LLC
1009 Pipeline Spill

SMA# 5B25299 BG-10
1/24/2017

TABLES

Enterprise Products

Table 1: Site Ranking

1009 Pipeline
November 28, 2016
Pipeline Release

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20	20	Verified using NMOCD Well Log files	Natural surface salt lakes exist across the project vicinity
50' to 99' = 10			
>100' = 0			
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 200' = 20	20	Verified using Google Earth and TOPO maps, and NMOSE database	Release is located in impounded surface salt lake
200' - 1000' = 10			
>1000' = 0			
Ranking Criteria for Horizontal Distance to a Water Well or Water Source	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
<1000' from a water source? <200' from a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0		New Mexico State Engineer's Office online water well data base	No recorded water wells located within 1,000 feet. One well located within a 1 mile radius, not a domestic water well
	0		
Total Site Ranking	40		
Soil Remedation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	5000 PPM	1000 PPM	100 PPM



SMA Project # 5B25299 BG10

Enterprise Products

Table 2: Summary of Laboratory Analyses
Results in mg/Kg

Analytical Report-	Sample Number on Figure 2 Map	Sample Date	MATRIX	BTEX ppm	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	Cl- mg/Kg
NMOCD Guidelines		NMOCD Site Ranking: 40		50 ppm	10 ppm	100 ppm		
1611E20-001	S S1	11/28/2016	WATER	<1.1	<1.0	<0.05	<1.0	N/A^
1611E20-002	N S1	11/28/2016	WATER	<1.1	<1.0	<0.05	<1.0	N/A^
1612317-001	W1	12/1/2016	WATER	20.4	5.2	0.072	<1.0	200,000
1612317-002	W2	12/1/2016	WATER	17.3	5.3	0.067	<1.0	210,000
1701727-002	SOURCE	1/17/2017	WATER	<1.0	<1.0	<0.05	<1.0	N/A^

N/A^ No Analysis

Enterprise Field Services, LLC
1009 Pipeline Spill

SMA# 5B25299 BG-10
1/24/2017

APPENDIX A
HALL ENVIRONMENTAL ANALYSIS LABORATORY REPORTS



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 08, 2016

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: 1009

OrderNo.: 1611E20

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/30/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1611E20

Date Reported: 12/8/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SS1

Project: 1009

Collection Date: 11/28/2016 5:58:00 AM

Lab ID: 1611E20-001

Matrix: AQUEOUS

Received Date: 11/30/2016 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/6/2016 2:00:15 PM	G39179
Surr: BFB	93.0	70-130		%Rec	1	12/6/2016 2:00:15 PM	G39179
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/6/2016 12:44:52 PM	28972
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/6/2016 12:44:52 PM	28972
Surr: DNOP	101	77.1-144		%Rec	1	12/6/2016 12:44:52 PM	28972
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	1.0		µg/L	1	12/6/2016 2:00:15 PM	W39179
Toluene	ND	1.0		µg/L	1	12/6/2016 2:00:15 PM	W39179
Ethylbenzene	ND	1.0		µg/L	1	12/6/2016 2:00:15 PM	W39179
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/6/2016 2:00:15 PM	W39179
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2016 2:00:15 PM	W39179
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2016 2:00:15 PM	W39179
Xylenes, Total	ND	1.5		µg/L	1	12/6/2016 2:00:15 PM	W39179
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	12/6/2016 2:00:15 PM	W39179
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	12/6/2016 2:00:15 PM	W39179
Surr: Dibromofluoromethane	107	70-130		%Rec	1	12/6/2016 2:00:15 PM	W39179
Surr: Toluene-d8	98.7	70-130		%Rec	1	12/6/2016 2:00:15 PM	W39179

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 1 of 5

Analytical Report

Lab Order 1611E20

Date Reported: 12/8/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: NS1

Project: 1009

Collection Date: 11/28/2016 5:58:00 AM

Lab ID: 1611E20-002

Matrix: AQUEOUS

Received Date: 11/30/2016 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/6/2016 2:29:03 PM	G39179
Surr: BFB	96.5	70-130		%Rec	1	12/6/2016 2:29:03 PM	G39179
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/6/2016 1:12:26 PM	28972
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/6/2016 1:12:26 PM	28972
Surr: DNOP	104	77.1-144		%Rec	1	12/6/2016 1:12:26 PM	28972
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	1.0		µg/L	1	12/6/2016 2:29:03 PM	W39179
Toluene	ND	1.0		µg/L	1	12/6/2016 2:29:03 PM	W39179
Ethylbenzene	ND	1.0		µg/L	1	12/6/2016 2:29:03 PM	W39179
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/6/2016 2:29:03 PM	W39179
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2016 2:29:03 PM	W39179
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2016 2:29:03 PM	W39179
Xylenes, Total	ND	1.5		µg/L	1	12/6/2016 2:29:03 PM	W39179
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	12/6/2016 2:29:03 PM	W39179
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	12/6/2016 2:29:03 PM	W39179
Surr: Dibromofluoromethane	106	70-130		%Rec	1	12/6/2016 2:29:03 PM	W39179
Surr: Toluene-d8	100	70-130		%Rec	1	12/6/2016 2:29:03 PM	W39179

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 2 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611E20
08-Dec-16

Client: Souder, Miller & Associates
Project: 1009

Sample ID	LCS-28972	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range					
Client ID:	LCSW	Batch ID:	28972	RunNo:	39131					
Prep Date:	12/2/2016	Analysis Date:	12/5/2016	SeqNo:	1225053	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.6	1.0	5.000	0	112	63.2	155			
Surr: DNOP	0.56		0.5000		112	77.1	144			

Sample ID	MB-28972	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range					
Client ID:	PBW	Batch ID:	28972	RunNo:	39131					
Prep Date:	12/2/2016	Analysis Date:	12/5/2016	SeqNo:	1225055	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.3		1.000		125	77.1	144			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 3 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1611E20

08-Dec-16

Client: Souder, Miller & Associates**Project:** 1009

Sample ID rb	SampType: MBLK				TestCode: EPA Method 8260: Volatiles Short List					
Client ID: PBW	Batch ID: W39179				RunNo: 39179					
Prep Date:	Analysis Date: 12/6/2016				SeqNo: 1226561	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	8.9		10.00		89.5	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.9		10.00		99.3	70	130			

Sample ID 100ng lcs	SampType: LCS				TestCode: EPA Method 8260: Volatiles Short List					
Client ID: LCSW	Batch ID: W39179				RunNo: 39179					
Prep Date:	Analysis Date: 12/6/2016				SeqNo: 1226562	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	70	130			
Toluene	22	1.0	20.00	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		97.5	70	130			
Surr: 4-Bromofluorobenzene	8.9		10.00		89.0	70	130			
Surr: Dibromofluoromethane	10		10.00		99.9	70	130			
Surr: Toluene-d8	9.6		10.00		96.1	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Page 4 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1611E20

08-Dec-16

Client: Souder, Miller & Associates**Project:** 1009

Sample ID rb	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBW	Batch ID: G39179			RunNo: 39179						
Prep Date:	Analysis Date: 12/6/2016			SeqNo: 1226581		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	9.5		10.00		95.0	70	130			

Sample ID 2.5ug gro lcsb	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSW	Batch ID: G39179			RunNo: 39179						
Prep Date:	Analysis Date: 12/6/2016			SeqNo: 1226582		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5000	0	101	75.4	118			
Surr: BFB	9.6		10.00		96.0	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1611E20

RcptNo: 1

Received by/date: LC 11/30/16

Logged By: Andy Jansson 11/30/2016 9:45:00 AM

Completed By: Andy Jansson 11/30/16

Reviewed By: [Signature] 12/01/16

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 15, 2016

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: 1009 Line Leak

OrderNo.: 1612317

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 12/7/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1612317

Date Reported: 12/15/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: W1

Project: 1009 Line Leak

Collection Date: 12/1/2016 1:00:00 PM

Lab ID: 1612317-001

Matrix: AQUEOUS

Received Date: 12/7/2016 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	200000	10000	*	mg/L	2E	12/14/2016 4:41:39 AM	R39371
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/9/2016 1:33:03 PM	29057
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/9/2016 1:33:03 PM	29057
Surr: DNOP	92.6	77.1-144		%Rec	1	12/9/2016 1:33:03 PM	29057
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	0.072	0.050		mg/L	1	12/9/2016 11:42:15 AM	G39284
Surr: BFB	82.3	66.4-120		%Rec	1	12/9/2016 11:42:15 AM	G39284
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	12/9/2016 11:42:15 AM	B39284
Benzene	5.2	1.0		µg/L	1	12/9/2016 11:42:15 AM	B39284
Toluene	13	1.0		µg/L	1	12/9/2016 11:42:15 AM	B39284
Ethylbenzene	ND	1.0		µg/L	1	12/9/2016 11:42:15 AM	B39284
Xylenes, Total	2.2	2.0		µg/L	1	12/9/2016 11:42:15 AM	B39284
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/9/2016 11:42:15 AM	B39284
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/9/2016 11:42:15 AM	B39284
Surr: 4-Bromofluorobenzene	93.4	80-120		%Rec	1	12/9/2016 11:42:15 AM	B39284

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1612317

Date Reported: 12/15/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: W2

Project: 1009 Line Leak

Collection Date: 12/1/2016 1:25:00 PM

Lab ID: 1612317-002

Matrix: AQUEOUS

Received Date: 12/7/2016 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	210000	10000	*	mg/L	2E	12/14/2016 4:54:03 AM	R39371
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/9/2016 1:59:45 PM	29057
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/9/2016 1:59:45 PM	29057
Surr: DNOP	96.5	77.1-144		%Rec	1	12/9/2016 1:59:45 PM	29057
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	0.067	0.050		mg/L	1	12/9/2016 12:06:45 PM	G39284
Surr: BFB	78.5	66.4-120		%Rec	1	12/9/2016 12:06:45 PM	G39284
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	12/9/2016 12:06:45 PM	B39284
Benzene	5.3	1.0		µg/L	1	12/9/2016 12:06:45 PM	B39284
Toluene	12	1.0		µg/L	1	12/9/2016 12:06:45 PM	B39284
Ethylbenzene	ND	1.0		µg/L	1	12/9/2016 12:06:45 PM	B39284
Xylenes, Total	ND	2.0		µg/L	1	12/9/2016 12:06:45 PM	B39284
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/9/2016 12:06:45 PM	B39284
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/9/2016 12:06:45 PM	B39284
Surr: 4-Bromofluorobenzene	85.8	80-120		%Rec	1	12/9/2016 12:06:45 PM	B39284

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1612317

Date Reported: 12/15/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: Trip Blank

Project: 1009 Line Leak

Collection Date:

Lab ID: 1612317-003

Matrix: AQUEOUS

Received Date: 12/7/2016 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/9/2016 12:55:42 PM	G39284
Surr: BFB	86.0	66.4-120		%Rec	1	12/9/2016 12:55:42 PM	G39284
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	12/9/2016 12:55:42 PM	B39284
Benzene	ND	1.0		µg/L	1	12/9/2016 12:55:42 PM	B39284
Toluene	ND	1.0		µg/L	1	12/9/2016 12:55:42 PM	B39284
Ethylbenzene	ND	1.0		µg/L	1	12/9/2016 12:55:42 PM	B39284
Xylenes, Total	ND	2.0		µg/L	1	12/9/2016 12:55:42 PM	B39284
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/9/2016 12:55:42 PM	B39284
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/9/2016 12:55:42 PM	B39284
Surr: 4-Bromofluorobenzene	97.6	80-120		%Rec	1	12/9/2016 12:55:42 PM	B39284

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 3 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612317
15-Dec-16

Client: Souder, Miller & Associates
Project: 1009 Line Leak

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R39371	RunNo:	39371					
Prep Date:		Analysis Date:	12/13/2016	SeqNo:	1232565	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R39371	RunNo:	39371					
Prep Date:		Analysis Date:	12/13/2016	SeqNo:	1232566	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.3	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 4 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612317
15-Dec-16

Client: Souder, Miller & Associates
Project: 1009 Line Leak

Sample ID	LCS-29057	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range					
Client ID:	LCSW	Batch ID:	29057	RunNo:	39271					
Prep Date:	12/7/2016	Analysis Date:	12/9/2016	SeqNo:	1229313	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	110	63.2	155			
Surr: DNOP	0.49		0.5000		98.6	77.1	144			

Sample ID	MB-29057	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range					
Client ID:	PBW	Batch ID:	29057	RunNo:	39271					
Prep Date:	12/7/2016	Analysis Date:	12/9/2016	SeqNo:	1229314	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.0		1.000		99.6	77.1	144			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Page 5 of 8

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1612317

15-Dec-16

Client: Souder, Miller & Associates**Project:** 1009 Line Leak

Sample ID RB	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBW	Batch ID: G39284			RunNo: 39284						
Prep Date:	Analysis Date: 12/9/2016			SeqNo: 1229712		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	17		20.00		85.9	66.4	120			

Sample ID 2.5UG GRO LCS	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSW	Batch ID: G39284			RunNo: 39284						
Prep Date:	Analysis Date: 12/9/2016			SeqNo: 1229713		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.56	0.050	0.5000	0	111	79.1	123			
Surr: BFB	19		20.00		94.9	66.4	120			

Sample ID 1612317-001AMS	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: W1	Batch ID: G39284			RunNo: 39284						
Prep Date:	Analysis Date: 12/9/2016			SeqNo: 1229715		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0.07180	88.8	64.8	129			
Surr: BFB	17		20.00		84.6	66.4	120			

Sample ID 1612317-001AMSD	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: W1	Batch ID: G39284			RunNo: 39284						
Prep Date:	Analysis Date: 12/9/2016			SeqNo: 1229716		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5000	0.07180	87.8	64.8	129	0.896	20	
Surr: BFB	17		20.00		83.4	66.4	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Page 6 of 8

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1612317

15-Dec-16

Client: Souder, Miller & Associates**Project:** 1009 Line Leak

Sample ID RB	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBW	Batch ID: B39284			RunNo: 39284						
Prep Date:	Analysis Date: 12/9/2016			SeqNo: 1229721		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	19		20.00		96.4	80	120			

Sample ID 100NG BTEX LCSB	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSW	Batch ID: B39284			RunNo: 39284						
Prep Date:	Analysis Date: 12/9/2016			SeqNo: 1229722		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	20	2.5	20.00	0	99.6	80	120			
Benzene	23	1.0	20.00	0	114	80	120			
Toluene	22	1.0	20.00	0	112	80	120			
Ethylbenzene	22	1.0	20.00	0	108	80	120			
Xylenes, Total	62	2.0	60.00	0	103	80	120			
1,2,4-Trimethylbenzene	19	1.0	20.00	0	94.7	80	120			
1,3,5-Trimethylbenzene	19	1.0	20.00	0	96.2	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		100	80	120			

Sample ID 1612317-002AMS	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: W2	Batch ID: B39284			RunNo: 39284						
Prep Date:	Analysis Date: 12/9/2016			SeqNo: 1229726		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	25	2.5	20.00	0	125	63.4	127			
Benzene	22	1.0	20.00	5.332	81.9	63	126			
Toluene	23	1.0	20.00	12.05	56.8	80	120			S
Ethylbenzene	12	1.0	20.00	0.7120	58.4	80	120			S
Xylenes, Total	41	2.0	60.00	1.966	64.6	80	120			S
1,2,4-Trimethylbenzene	12	1.0	20.00	0.3260	59.1	80	120			S
1,3,5-Trimethylbenzene	12	1.0	20.00	0	59.7	80	120			S
Surr: 4-Bromofluorobenzene	16		20.00		82.0	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1612317****15-Dec-16****Client:** Souder, Miller & Associates**Project:** 1009 Line Leak

Sample ID 1612317-002AMSD	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: W2	Batch ID: B39284		RunNo: 39284							
Prep Date:	Analysis Date: 12/9/2016		SeqNo: 1229727		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	24	2.5	20.00	0	122	63.4	127	2.49	20	
Benzene	21	1.0	20.00	5.332	76.7	63	126	4.91	20	
Toluene	22	1.0	20.00	12.05	50.4	80	120	5.58	20	S
Ethylbenzene	13	1.0	20.00	0.7120	59.4	80	120	1.62	20	S
Xylenes, Total	41	2.0	60.00	1.966	65.8	80	120	1.73	20	S
1,2,4-Trimethylbenzene	13	1.0	20.00	0.3260	61.7	80	120	4.22	20	S
1,3,5-Trimethylbenzene	12	1.0	20.00	0	61.9	80	120	3.68	20	S
Surr: 4-Bromofluorobenzene	17		20.00		84.5	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Page 8 of 8



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1612317

RcptNo: 1

Received by/date: LM 12/07/16

Logged By: Andy Jansson 12/7/2016 9:50:00 AM

Completed By: Andy Jansson 12/07/16

Reviewed By: 12/07/16

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:
Client:	SMA - Cat3606	<input type="checkbox"/> Standard <input type="checkbox"/> Rush
Mailing Address:	201 S HAWAII	Project Name:
Phone #:	575 689-7040	Project #:
email or Fax#:		Project Manager:
QA/QC Package:		
<input type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)	
Accreditation		Sampler:
<input type="checkbox"/> NELAP	<input type="checkbox"/> Other	On Ice:
<input type="checkbox"/> EDD (Type)		Sample Temperature:

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date:		Time:	Relinquished by:	Received by:	Date:	Time:	Remarks:									
2/6	9:00		Austin Weyand	SPH	12/6/16	0900										
2/6	1:00		SPH	SPH	12/6/16	1300										

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

January 20, 2017

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: 1009

OrderNo.: 1701727

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/18/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1701727

Date Reported: 1/20/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: Source

Project: 1009

Collection Date: 1/17/2017 8:30:00 AM

Lab ID: 1701727-002

Matrix: AQUEOUS

Received Date: 1/18/2017 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/18/2017 1:18:06 PM	29753
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/18/2017 1:18:06 PM	29753
Surr: DNOP	108	77.1-144		%Rec	1	1/18/2017 1:18:06 PM	29753
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/18/2017 2:08:11 PM	GW4010
Surr: BFB	65.4	66.4-120	S	%Rec	1	1/18/2017 2:08:11 PM	GW4010
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	1.0		µg/L	1	1/18/2017 2:08:11 PM	BW4010
Toluene	ND	1.0		µg/L	1	1/18/2017 2:08:11 PM	BW4010
Ethylbenzene	ND	1.0		µg/L	1	1/18/2017 2:08:11 PM	BW4010
Xylenes, Total	ND	2.0		µg/L	1	1/18/2017 2:08:11 PM	BW4010
Surr: 4-Bromofluorobenzene	64.0	80-120	S	%Rec	1	1/18/2017 2:08:11 PM	BW4010

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 1 of 4

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1701727

20-Jan-17

Client: Souder, Miller & Associates**Project:** 1009

Sample ID	LCS-29753	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range					
Client ID:	LCSW	Batch ID:	29753	RunNo:	40100					
Prep Date:	1/18/2017	Analysis Date:	1/18/2017	SeqNo:	1257217	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.7	1.0	5.000	0	113	63.2	155			
Surr: DNOP	0.57		0.5000		115	77.1	144			

Sample ID	MB-29753	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range					
Client ID:	PBW	Batch ID:	29753	RunNo:	40100					
Prep Date:	1/18/2017	Analysis Date:	1/18/2017	SeqNo:	1257218	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		110	77.1	144			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Page 2 of 4

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1701727

20-Jan-17

Client: Souder, Miller & Associates**Project:** 1009

Sample ID 2.5UG GRO LCS	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSW	Batch ID: GW40105			RunNo: 40105						
Prep Date:	Analysis Date: 1/18/2017			SeqNo: 1257185		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.53	0.050	0.5000	0	106	79.1	123			
Surr: BFB	19		20.00		93.6	66.4	120			

Sample ID RB	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBW	Batch ID: GW40105			RunNo: 40105						
Prep Date:	Analysis Date: 1/18/2017			SeqNo: 1257186		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	17		20.00		82.8	66.4	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Page 3 of 4

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1701727

20-Jan-17

Client: Souder, Miller & Associates**Project:** 1009

Sample ID	100NG BTEX LCS		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSW		Batch ID: BW40105		RunNo: 40105					
Prep Date:			Analysis Date: 1/18/2017		SeqNo: 1257192		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	80	120			
Toluene	20	1.0	20.00	0	97.6	80	120			
Ethylbenzene	19	1.0	20.00	0	93.9	80	120			
Xylenes, Total	56	2.0	60.00	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	19		20.00		94.5	80	120			

Sample ID	RB	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID: BW40105			RunNo: 40105					
Prep Date:		Analysis Date: 1/18/2017			SeqNo: 1257193		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	18		20.00		88.9	80	120			

Sample ID	1701727-002A MS		SampType: MS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	Source		Batch ID: BW40105		RunNo: 40105					
Prep Date:			Analysis Date: 1/18/2017		SeqNo: 1258247		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.1	63	126			
Toluene	15	1.0	20.00	0.3502	71.1	80	120			S
Ethylbenzene	12	1.0	20.00	0	59.5	80	120			S
Xylenes, Total	36	2.0	60.00	0	60.1	80	120			S
Surr: 4-Bromofluorobenzene	14		20.00		69.1	80	120			S

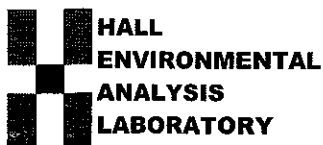
Sample ID	1701727-002A MSD		SampType: MSD		TestCode: EPA Method 8021B: Volatiles					
Client ID:	Source		Batch ID: BW40105		RunNo: 40105					
Prep Date:			Analysis Date: 1/18/2017		SeqNo: 1258248		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	13	1.0	20.00	0	66.4	63	126	35.5	20	R
Toluene	11	1.0	20.00	0.3502	55.2	80	120	24.4	20	RS
Ethylbenzene	9.5	1.0	20.00	0	47.5	80	120	22.3	20	RS
Xylenes, Total	30	2.0	60.00	0	50.2	80	120	17.9	20	S
Surr: 4-Bromofluorobenzene	12		20.00		61.7	80	120	0	0	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Page 4 of 4



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1701727

RcptNo: 1

Received by/date:

01/18/17

Logged By: Ashley Gallegos

1/18/2017 9:30:00 AM

Completed By: Ashley Gallegos

1/18/2017 9:40:04 AM

Reviewed By:

01/18/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Yes			

Chain-of-Custody Record

Client: SMA CBO

Mailing Address: 201

Phone #: 505 689 7040

Email or Fax#:

QC Package:

Standard ☐ Level 4 (Full Validation)

Accreditation

NELAP ☐ Other

EDD (Type)

Date Time Matrix Sample Request ID

17 8:00 2012 Backfill
17 8:30 1110 Source

Sampler:

On Ice ☒ Yes ☐ No

Sample Temperature

Container Type and #

Preservative Type

4 oz
340ml 1110 1110
-001
-002

HEAL No

30-10-20

1701727

Project Manager:

Austin Weyant

Project Name:

1089

Project #:

1089

Turn-Around Time:

Same day

Standard ☐ Rush ☒

Project Name:

1089

Project #:

1089

Turn-Around Time:

Same day

Project Name:

1089

Project #:

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Turn-Around Time:

Same day

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

☐ Standard ☒ Rush

Project Name:

1089

Project #:

Project Manager:

AUSTON NEYART

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature:

Date	Time	Matrix	Sample Request ID
------	------	--------	-------------------

Sample Request ID

Container

Preservative Type

1/17	8:00	202	BACKSLASH
1/17	8:50	4,0	SOURCE

BACKFILE

3	7
---	---

 $340m(300)49cl$

25

2

3

2

Received by: Date Time

Time

1/17/17 0905D

AS

Received by: PS Date 11/11/01 Time 11:00

Time

05/07/20

20

For necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Enterprise Field Services, LLC
1009 Pipeline Spill

SMA# 5B25299 BG-10
1/24/2017

APPENDIX B
C141 INITIAL AND FINAL

Enterprise Field Services, LLC
1009 Pipeline Spill

SMA# 5B25299 BG-10
1/24/2017

APPENDIX C:
PHOTOGRAPHIC DOCUMENTATION

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 206761

CONDITIONS

Operator: ENTERPRISE PRODUCTS OPERATING, LLC P.O. BOX 4324 HOUSTON, TX 77210	OGRID: 374092
	Action Number: 206761
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	4/12/2023